

AMENDMENTS TO THE SPECIFICATION

On page 1, lines 12 through 15, please replace the existing paragraph as follows:

A1
~The present invention relates generally to providing private networking services, e.g.,
e.g., Intranet services, remotely, and more particularly, to allowing a service provider to locate
and manage private network servers at the ~~Service Provider's~~ service provider's location, while
connecting the servers to a customer's premises such that they appear to be local and private to
the customer. ~

On page 11, lines 9 through 18, please replace the existing paragraph as follows:

A2
~Fig. 1 is an illustration of an embodiment of a private virtual server system, which
replaces multiple private Intranet servers. A private virtual server system 100 includes a service
provider gateway 152 that connects to a service provider data center 150. System 100 is
connected to multiple customer sites 110 via an access network 120. ~~A set of customers e.g.~~
Customers, e.g., 112 and 114, are located in potentially any global location, although frequently
~~the set of~~ customers are located within the regional access network of the service provider. As
will be evident to one of skill in the art, any number of customers may be supported by the
private virtual server system 100. Only the resources of the physical servers owned by the
service provider limit the number of customers supported. Furthermore, a service provider may
add additional physical servers as required to support additional customers. ~

On page 13, lines 5 through 9, please replace the existing paragraph as follows:

A3
--Traffic from each individual customer 112 and 114 is aggregated 130 and transported
across the local or regional network 140 until it reaches a service provider gateway 152. The

service provider gateway 152 provides the connection into the service provider data center 150.

A3
end
The service provider gateway 152 directs traffic from each customer to the private virtual servers ~~they own~~, it owns and prevents traffic from reaching private virtual servers a customer does not own. ✓

On page 24, lines 1 through 13, please replace the existing paragraphs as follows:

✓ The information in the customer ~~lookup~~ forwarding tables 900 is segregated by customer because the private address spaces of different customers may overlap, and therefore the destination IP addresses on each individual customer forwarding table are not unique within the set of all customer forwarding tables. For example, "main server" of customer 1 and "server" of customer 2 may have the same IP address.

A4
The service field in the customer ~~forwarding~~ lookup table 800 identifies whether only a tunnel switching service (TS) is required, or a packet switching service (PS) is required. If only a tunnel switching service is required, the associated customer forwarding table will contain only a single entry specifying the proper outgoing tunnel and outgoing physical interface. For example, customer lookup table 800 indexes transmissions arriving on physical interface 712 and incoming tunnel 710C to customer 2, and identifies these transmissions as requiring only a tunnel switching service. Customer lookup table 920 associated with customer 2 directs all traffic to outgoing tunnel 730D on physical interface 732C. ✓